



US006330586B1

(12) United States Patent
Yates et al.(10) Patent No.: US 6,330,586 B1
(45) Date of Patent: *Dec. 11, 2001(54) RECONFIGURABLE SERVICE PROVISION
VIA A COMMUNICATION NETWORK

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(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 08/875,890

(22) PCT Filed: Feb. 7, 1996

(86) PCT No.: PCT/GB96/00252

§ 371 Date: Oct. 14, 1997

§ 102(e) Date: Oct. 14, 1997

(87) PCT Pub. No.: WO96/25012

PCT Pub. Date: Aug. 15, 1996

(30) Foreign Application Priority Data

Feb. 7, 1995 (EP) 95300754
Apr. 24, 1995 (GB) 9508283

(51) Int. Cl. 7 G06F 13/00

(52) U.S. Cl. 709/201; 709/202; 709/221;
709/227; 707/104(58) Field of Search 709/201, 202,
709/203, 220, 221, 222, 223, 224, 226,
315, 217, 218, 227, 228, 311; 707/10, 103,
104

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ABSTRACT

A services provision system provides information services over one or more communications networks and has a software infrastructure divided into domains. Each domain has an intelligent software agent and this community of agents sits in a computing environment represented in each domain by a DPE kernel. The community of agents co-operates to provide service and service management functionality to a user. At least one of the agents is reconfigurable to change the functionality the system makes available. Reconfigurability is based on the use of a plurality of reusable software modules, the agent reconfiguring by selecting a new combination of modules. The software modules themselves incorporate rules, or policies, which determine process steps offered by the modules at run-time. These policies are external to the modules and may be loaded at run-time, allowing dynamic modification to functionality of the system. The system as a whole offers functionality associated with using services, providing them and managing them and the reconfigurability allows it to offer the different types of functionality in an efficient way. It also allows access control to functionality at different levels with particularly good security against fraudulent use.

29 Claims, 9 Drawing Sheets

